

FIRE RETARDANT

# **FS-PG™ PERIMETER GUARD**

## SAFETY DATA SHEET

	SECTION 1 PRODUCT & COMPA	NY INFORMATION
1.1	Product Identifier	
	Product Name	FS-PG <sup>™</sup> PERIMETER GUARD
	Brand	Flame Seal Products, Inc.
	CAS#	NA/mixture
1.2	Relevant identified uses of the substance or mix	cture and uses advised against
	Identified uses	Water soluble, fire retardant powder.
1.3	Details of the Supplier of the Safety Data Sheet	
	Company	Flame Seal Products, Inc.
		15200 West Drive
		Houston, TX 77053 USA
	Telephone	713-668-4291
	Fax	713-668-1724
1.4	Emergency telephone number	
	Emergency #	800-424-9300

#### SECTION 2 HAZARDS IDENTIFICATION

	C_CC		••••
2.1	Classification of the	substance or mixture	

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritant, eye irritant

For the full text of the H-statements mentioned in this section, see Section 16.

#### 2.2 GHS Label Elements, including precautionary statements

ons capet Eternents, including precautionary statements		
Hazard Statements	WARNING	
H316:3	Causes mild skin irritation.	
H320:2B	Causes eye irritation.	
Precautionary Statements		
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe dust or mist.	
P264	Wash skin thoroughly if exposed.	
P280	Wear eye/face protection.	
P281	Use personal protection equipment as required.	
P84	In case of inadequate ventilation wear respiratory protection.	
P305 + P351 + P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
P332 + 313	If skin irritation occurs: get medical advice/attention.	
P337 + P313	If eye irritation persists: get medical advice/attention.	
Other Hazards		
H303	If eye irritation persists: get medical advice/attention.	
	Hazard Statements H316:3 H320:2B Precautionary Statements P202 P260 P264 P280 P281 P84 P305 + P351 + P338 P332 + 313 P337 + P313 Other Hazards	

For the full text of the H-statements mentioned in this section, see section 16.

SDS v1.1 | Date: 02/09/2016

## **FS-PG™ PERIMETER GUARD**



SECTION 3	COMPOSITION/INFO	RMATION ON INGREDIENTS
Substances		
Formula		Mixture of water soluble organic and inorganic salts.
Hazardous Components		Wt. %
Proprietary nitrogen an	d phosphate blend*	>95
Performance additives		<5
	Substances Formula Hazardous Compone Proprietary nitrogen an	<b>Substances</b> Formula

<sup>\*</sup> Components are a Company Trade Secret – Business Confidential. Flame Seal Products Inc. is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1). The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200(i)(1)(2)(3)(4).

	SECTION 4 FIRST AID MEASUR	ES
4.1	Description of first aid measures	
	If inhaled	Not expected to be an issue. Move person to fresh air.
	In case of skin contact	Wash with soap and plenty of water. If irritation occurs, get medical advice/attention.
	In case of eye contact	Flush eyes with plenty of fresh water while holding eyelids open. Remove contact lenses if worn. If eye irritation persists, get
		medical advice/attention.
	If swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Flush mouth with water. If conscious give
		water to further dilute chemical. Consult physician.
4.2	Most important symptoms and effects,	The most important known symptoms and effects are described in the labelling (see section 2.2) or in Section 11.
	both acute and delayed	
4.3	Indication of any immediate medical attention	No data available
	and special treatment needed	

	SECTION 5 FIRE FIGHTING ME	ASURES
5.1	Extinguishing media	Not combustible (use water spray, fog, foam, dry chemicals, CO <sub>2</sub> or other agents as appropriate for material in surrounding fire).
5.2	Special hazards arising from substance	Heating and/or burning may liberate small amounts of ammonia, carbon oxides, nitrogen oxides.
	or mixture	
5.3	Advice for firefighters	Not combustible (use safety equipment which is suitable for materials in surrounding fire).
5.4	.4 Further information No data available	

	SECTION 6 ACCIDENTAL RELEA	ASE MEASURES
6.1	Personal precautions, protective equipment	Use personal protective equipment. Avoid breathing mist. Ensure adequate ventilation. Evacuate personnel from affected area.
	and emergency procedures	For personal protection, see Section 8.
6.2	Environmental precautions	Prevent further leakage or spillage, if safe to do so. Prevent material from entering public sewer system or any waterways.
		Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
6.3	Methods and materials for containment	Confine spilled liquid material and absorb with sand, sawdust, earth or other available solids. Sweep or vacuum up solid
	and cleaning up.	material and place in a suitable container for disposal. Avoid generating dust.
6.4	Reference to other sections	See Section 13 for further disposal info

	SECTION 7 HANDL	ING & STORAGE
7.1	7.1 Precautions for safe handling Wear appropriate protective equipment. Provide adequate ventilation. See Sections 2.2 and 8.	
7.2	Conditions for safe storage,	Keep container tightly sealed when not in use. Use good industrial practices to avoid spills. Exposure to strong bases
	including any incompatibles	and/or heat may liberate ammonia.
7.3	Specified end use	Used mainly as a passive fire retardant for dry brush, grasses, and other cellulosic material in fire prone areas.

Flame Seal Products, Inc. 15200 West Drive, Houston, TX 77053 USA

www.flameseal.com | 713-668-4291 [office] | 713-668-1724 [fax] | **Emergency No. (Chemtrec): 800-424-9300** 

SDS v1.1 | Date: 02/09/2016

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.



	SECTION 8 EXPOSURE CON	TROL/PERSONAL PROTECT	TON	
8.1	Control Parameters			
	Components with workplace control parame	ters (Dry product):	ACGIH	OSHA
			10 mg/m³ TWA inhalable particles	10 mg/m³ TWAEV inhalable particulate
			3 mg/m³ TWA respirable particles	3 mg/m³ TWAEV respirable particulate
	Personal Protection Equipment	Respiratory Protection	Respiratory protection not normally requi	ired while spraying liquid outdoors. If inadequate
		(Specify Type)	ventilation is present while spraying, wear	r respiratory protection approved for organic mists.
			When handling the powder, where protect	tion from nuisance dusts are desired, use type
			N95(US) or P1(EN 143) dust masks.	
		Protective Gloves	Wear impervious gloves as necessary to a	avoid excessive skin contact (i.e. rubber or neoprene)
		Eye Protection	Protective glasses or goggles in dust areas	s.
		Other Protective	Adequate clothing to minimize direct con-	ntact with skin.
		Equipment		
	Engineering Measures/Controls	Local Exhaust	Adequate ventilation systems as needed t	o control concentrations of airborne contaminants
			below applicable threshold limit values.	
		Mechanical (General)	For outdoor application.	
		General Industrial	Do not use, and or consume foods, bever	ages, tobacco products, or cosmetics in areas where
		Hygiene Considerations	this material is stored. Wash hands and fa	ace carefully before eating drinking, using tobacco,
			applying cosmetics, or using toilet.	
		Special	NA	

Inforr	mation on Basic Physical & Chemi	Chemical Properties			
a)	Appearance	Whitish powder - clear to hazy	k)	Vapor pressure	No data available
		liquid when diluted			
b)	Odor	None to Mild Amonia	()	Vapor density	No data available
c)	Odor threshold	NA	m)	Relative density	1.02-1.33-depending on mix rat
d)	pH	6.0 - 7.5 mixed concentrate	n)	Water solubility	Completely soluble
e)	Melting/freezing point	NA/~30 °F	0)	Partition coefficient n-octanol/water	No data available
f)	Initial boiling point	~212 °F	p)	Auto ignition temp	None
g)	Flash point	No data available	q)	Decomposition temp	No data available
h)	Evaporation rate	No data available	r)	Viscosity	~30-60 cP -depending on mix ra
i)	Flammability	None	s)	Explosive properties	No data available
j)	Upper/lower flamm limits	No data available	t)	Oxidizing properties	No data available

	SECTION 10	STABILITY & REACTI	VITY
10.1	Reactivity		No data available
10.2	Chemical Stability		Stable under recommended storage conditions
10.3	Possibility of hazard	ous reactions	None known
10.4	Conditions to avoid		Moisture – Keep container sealed tightly when not in use
10.5	Incompatible materi	als	Strong bases and alkalis
10.6	Hazardous decompo	sition products	Ammonia, nitrous oxides, carbon oxides

Flame Seal Products, Inc. 15200 West Drive, Houston, TX 77053 USA www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | Emergency No. (Chemtrec): 800-424-9300

SDS v1.1 | Date : 02/09/2016

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.

## **FS-PG™ PERIMETER GUARD**



SECTION 11 TOXICOLOGICAL IN	IFORMATION		
11.1 Information on toxicological effects (Undilute	d Chemicals)		
Acute toxicity	LD50 Oral (rat) 8471 mg/kg		
Inhalation	Liquid not expected to be harmful. Use respirator if adequate ventilation is not possible to keep dust or mist exposure to reasonable levels		
Dermal	Not expected to be an issue. Wash area thoroughly with soap and water if exposed.		
Skin corrosion/irritation	May cause mild skin irritation with prolonged exposure.		
Serious eye damage/eye irritation	May cause mild irritation with direct contact. Wear eye protection when spraying or handling powder.		
Respiratory or skin sensitization	May cause respiratory irritation with heavy exposure. Do not breathe concentrated dust or mist. Wear appropriate respirator as		
	conditions warrant.		
Germ cell mutagenicity	No data available		
Carcinogenicity			
IARC	No components of this product present at levels $\geq$ 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC		
NTP	No components of this product present at levels $\geq$ 0.1% is identified as a probable, possible, or confirmed human carcinogen by NTP.		
OSHA	No components of this product present at levels $>=0.1\%$ is identified as a probable, possible, or confirmed human carcinogen by OSHA		
Specific organ toxicity (single exposure)	No data available		
Specific organ toxicity (repeated exposure)	No data available		
Aspiration hazard	No data available		
Additional Information	RTECS: YR6250000		
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		

:	SECTION 12	ECOLOGICAL INFORM	MOITAN	
12.1	Toxicity			
		Toxicity to fish		LC50 - Fathead minnow - 155 mg/l - 96h
				Rainbow trout -> 85.9 mg/l - 96h OECD Test 203
				Guppy -> 17,500 mg/l - 96h
		Toxicity to daphnia & other aquatic invertebrates		EC50 – Daphnia Magna (Water flea) – 140 mg/l - 21d
				Conclusions from individual ingredient listing from manufacturers documents.
12.2	Persistence & degra	adability	No data available	
12.3	Bioaccumulation po	tential	No data available	
12.4	Mobility in soil		No data available	
12.5	Results of PBT & vP	vP assessment	Not required. Not conducted.	
12.6	2.6 Other adverse effects		No data available	

	SECTION 13	DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods		ethods	
	Product		Incinerate or bury powder in a suitable land fill where permitted by local regulations. Liquid product may be evaporated and

Incinerate or bury powder in a suitable land fill where permitted by local regulations. Liquid product may be evaporated and

treated the same - or contact a licensed disposal facility.

Contaminated packaging Dispose of a unused product.

SECTION 14	TRANSPORT INFORMATION	
DOT (US)	Not dangerous goods	
IMDG	Not dangerous goods	
IATA	Not dangerous goods	

Flame Seal Products, Inc. 15200 West Drive, Houston, TX 77053 USA

www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | **Emergency No. (Chemtrec): 800-424-9300** 

SDS v1.1 | Date: 02/09/2016

This document contains proprietary information of Flame Seal Products, Inc. It is intended solely for the purpose of providing information on the products and services described herein. Such proprietary information may not be used, reproduced or disclosed to any other parties for any other purpose without the expressed written permission of Flame Seal Products, Inc. ® indicate U.S. trademarks of Flame Seal Products, Inc.

## **FS-PG™ PERIMETER GUARD**



	SECTION 15 REGULATORY I	NFORMATION	
SARA 302 Components		No chemicals in this product are subject to the reporting requirements of SARA Title III, section 302.	
SARA 313 Components		The following components are subject to reporting levels Established by SARA Title III, section 313. None.	
	SARA 311/312	No SARA hazards.	
California Prop. 65 Components		This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.	

SECTION 16	OTHER INFORMATION					
Full text of H-stateme	Full text of H-statements referred to under sections 2 and 3					
H316:3	Cause mild skin irritation	1.				
H320: 2B	Causes eye irritation.	Causes eye irritation.				
Hazard pictograms not re	Hazard pictograms not required per Tables 3.2.5, 3.2.5.1, 3.3.5, 3.3.5.1 of the GHS of Classification and Labeling of Chemicals Fifth Revised Edition.					
HMIS Rating	Health hazard	1				
	Chronic health hazard	*				
	Flammability	0				
	Physical hazard	0				
NFPA	Health hazard	1				
	Fire hazard	0				
	Reactivity hazard	0				

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Flame Seal Products, Inc. knowledge, or obtained from sources believed by Flame Seal Products, Inc. to be accurate, and Flame Seal Products, Inc. does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.

Flame Seal Products, Inc. 15200 West Drive, Houston, TX 77053 USA

www.flameseal.com | 713-668-4291 (office) | 713-668-1724 (fax) | **Emergency No. (Chemtrec): 800-424-9300** 

SDS v1.1 | Date: 02/09/2016